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Joseph S. Ostroff Frank R. Cottingham Christine M. Lhulier Rae Lynn P. Guest George S. Bardmesser Daniel A. Klein\* Jason D. Eisenberg Michael D. Specht Andrea J. Kamage Tracy L. Mullen\* LuAnne M. DeSants Ann E. Summerfield Aric W. Ledford\* Helene C. Carlson Timothy A. Doyle\* Gaby L. Longsworth Lori A. Gordon\* Nicole D. Dretar\* Ted J. Ebersole Jyoti C. Iyer\* Laura A. Vogel

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November 12, 2004

WRITER'S DIRECT NUMBER: (202) 772-8675 INTERNET ADDRESS: JHELVEY@SKGF.COM

Art Unit 2634

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 09/632,856; Filed: August 4, 2000

For: Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments and

**Circuit Implementation** 

Inventors:

Sorrells et al.

Our Ref:

1744.0630003

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Fee Transmittal (Form PTO/SB/17);
- 2. Fourth Supplemental Information Disclosure Statement;
- 3. Form PTO-1449 (4 pages);
- 4. Copy of (1) cited document (Document No. AP59);
- 5. Return postcard; and
- 6. PTO-2038 Credit Card Payment Form for \$180.00 to cover: \$180.00 for submission of an Information Disclosure Statement.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents November 12, 2004 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey T. Helvey Attorney for Applicants

Registration No. 44,757

JTH/agj 333749\_1.DOC NO 1 2 2004 SE

PTO/SB/17 (10-04v2)
Approved for use through 07/31/2006. OMB 0651-0032
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Effective 10/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

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Co	omplete if Known
Application Number	09/632,856
Filing Date	August 4, 2000
First Named Inventor	David F. Sorrells
Examiner Name	Kim, Kevin
Art Unit	2634
Attorney Docket No.	1744.0630003

METHOD (	MENT (check all that	apply)	FEE CALCULATION (continued)						
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= ' '		or any underpayment of	fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
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1. BASIC FILING				1252	430	2252	215	Extension for reply within second month	
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1001 790 2001		Utility filing fee		1255	2,080	2255	1,040	Extension for reply within fifth month	
1002 350 2002		Design filing fee	<del></del>	1401	340	2401	170	Notice of Appeal	
1003 550 2003		Plant filing fee		1402	340	2402	170	Filing a brief in support of an appeal	
1004 790 2004	395	Reissue filing fee		1403	300	2403	150	Request for oral hearing	
1005 160 2005	80	Provisional filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
	SI	JBTOTAL (1) (\$)	0.00	1452	110	2452	55	Petition to revive - unavoidable	
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_		Extra Claimsbelow	Fee Paid	1502	490	2502	245	Design issue fee	
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1202 18 2	202 9	Claims in excess of 20		1809	790	2809	395	Filing a submission after final rejection	
1201 88 2	201 44	Independent claims in						(37 ČFR 1.129(a))	
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1204 88 2	204 44	** Reissue independen over original patent	t ciaims	1801	790	2801	395	Request for Continued Examination (RCE)	
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SUBMITTED BY

Name (Print/Type)

Signature

(Complete (if applicable))

(Complete (if applicable))

A4,757

Telephone
(202) 371-2600

Date

WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sorrells et al.

Appl. No.: 09/632,856

Filed: August 4, 2000

For: Wireless Local Area Network

(WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments and Circuit

**Implementation** 

Confirmation No.: 2377

Art Unit: 2634

Examiner: Kim, Kevin

Atty. Docket: 1744.0630003

## Fourth Supplemental Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

180.00 DP

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Fourth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Third Supplemental Information Disclosure Statement filed on August 19, 2004 in connection with the above-captioned application.

Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

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not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AP59 and AE63 were cited in an Office Action, mailed September 21, 2004, in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-converter Using Universal Frequency Translation," directed to related subject matter.

Document AG61 was cited in an Office Action, mailed August 17, 2004, in related U.S. Patent Application No. 09/476,093, filed January 3, 2000, entitled "Communication System Method With Multi-Mode and Multi-Band Functionality and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter.

Documents AH61 and AI61 were cited in a Notice of Allowance, mailed August 18, 2004, in related U.S. Patent Application No. 09/525,615, filed March 14, 2000, entitled "Method, System, and Apparatus for Balanced Frequency Up-conversion of a Baseband Signal and 4-Phase Receiver and Transceiver Embodiments," directed to related subject matter.

Documents AA62-AF62, mailed August 25, 2004, were cited in an Office Action in related U.S. Patent Application No. 10/290,323, filed November 8, 2002, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Documents AG62-AI62 were cited in an Office Action, mailed September 8, 2004, in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter.

Documents AA63-AD63 were cited in an Office Action, mailed September 8, 2004, in related U.S. Patent Application No. 09/986,764, filed November 9, 2001, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Documents AF63-AI63 were cited in a Notice of Allowance, mailed September 27, 2004, in related U.S. Patent Application No. 09/987,193, filed November 13, 2001, entitled "Method and Apparatus for a Parallel Correlator and Applications Thereof," directed to related subject matter.

Document AA64 was cited in an Office Action, mailed September 29, 2004, in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not

received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement. 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required. 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application. a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1). b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

	c.	in payment of the fee under 37 C.F.R. § 1.17(p).
<b>⊠</b> 4.	filed nof a Fi	under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being more than three months after the U.S. filing date and after the mailing date and Rejection or Notice of Allowance, but before payment of the Issue Fee. sed find our PTO-2038 Credit Card Payment Form in the amount of in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
	a.	Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
	<b>⊠</b> b.	Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
<u></u>	the sea	expart foreign application. Submission of an English language version of arch report that indicates the degree of relevance found by the foreign office wided in satisfaction of the requirement for a concise explanation of the conce. 1138 OG 37, 38.
☐ 6.		ncise explanation of the relevance of non-English language documents rs below:
⊠ 7.	§ 1.98	y of document AP59 is submitted. However, in accordance with 37 C.F.R. (a)(2), no copies of U.S patents and patent application publications cited on ached Form PTO-1449 are submitted.

8. Copies of the documents were cited by or submitted to the Office in an II	OS that							
complies with 37 C.F.R. § 1.98(a)-(c) in Application No	_, filed							
, which is relied upon for an earlier filing date under 35	U.S.C.							
§ 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98	(d).							
9. It is expected that the examiner will review the prosecution and cited are	in the							
parent application no, filed, and indicate in the	e next							
communication from the office that the art cited in the earlier prose	ecution							
histories have been reviewed in connection with the present application.								
It is respectfully requested that the Examiner initial and return a copy	of the							
enclosed Form PTO-1449, and indicate in the official file wrapper of this	patent							
application that the documents have been considered.								
The U.S. Patent and Trademark Office is hereby authorized to charge a	any fee							
deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.								

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey T. Helvey
Attorney for Applicants

Registration No. 44,757

Date: 11/12/04

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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Page 1 of 4 ATTY. DOCKET NO. APPLICATION NO. 09/632,856 1744.0630003

INVENTORS Sorrells et al

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FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT					FILING DATE August 4, 2000		ART UNIT 2634			
				U.S. PATI	ENT DOCUMENTS	12004	····			
EXAMINER NITIAL		DO	CUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE		
	AA									
•	AB			<u> </u>						
4	AC									
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	AG61	4,1	32,952	01/1979	Hongu et al.					
	AH61	5,2	260,973	11/1993	Watanabe					
	Al61	6,3	807,894 B2	10/2001	Eidson et al.					
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**FOURTH SUPPLEMENTAL** 

	Page 2 of 4
ATTY. DOCKET NO.	APPLICATION NO.
1744.0630003	09/632,856
INVENTORS	
Sorrells et al.	

**FILING DATE ART UNIT** INFORMATION DISCLOSURE STATEMENT August 4, 2000 2634 **U.S. PATENT DOCUMENTS EXAMINER** DOCUMENT NUMBER DATE CLASS SUB-CLASS | FILING DATE INITIAL NAME 04/1984 AA62 4,441,080 Saari 10/1989 **AB62** 4,873,492 Myer 12/1997 Makikallio et al. AC62 5,697,074 AD62 5,784,689 07/1998 Kobayashi 01/2002 Goldfarb et al. AE62 6,335,656 B1 02/2004 Ueno et al. AF62 6,690,232 B2 06/1997 Lee et al. AG62 5,636,140 6,366,622 B1 04/2002 Brown et al. **AH62** 07/2003 Ohta et al. AI62 6,600,795 B1 **FOREIGN PATENT DOCUMENTS** EXAMINER **TRANSLATION** CLASS SUB-CLASS COUNTRY DOCUMENT NUMBER DATE INITIAL Yes ΑJ No Yes ΑK No Yes ΑL No Yes AM No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) ΑN ΑO ΑP AQ AR DATE CONSIDERED **EXAMINER** 

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Page 3 of 4

ATTY. DOCKET NO. APPLICATION NO. 1744.0630003 09/632,856

INVENTORS Sorrells et al. ART UNIT

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INITIAL	AA63	4,250,458	02/1981	NAME Richmond <i>et al.</i>	CLASS	SUB-CLASS	FILING DATE
	AB63	5,760,629	06/1998	Urabe et al.			
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<b></b>	AC63	6,084,465	07/2000	Dasgupta			
	AD63	6,204,789 B1	03/2001	Nagata			
	AE63	6,064,054	05/2000	Waczynski et al.			
	AF63	5,218,562	06/1993	Basehore et al.			
	AG63	5,239,496	08/1993	Vancraeynest			
	AH63	5,896,304	04/1999	Tiemann et al.			
	A163	6,005,903	12/1999	Mendelovicz			
		F	OREIGN P	ATENT DOCUMENTS			
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**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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DOCUMENT NUMBER	DATE	NAME		CLASS	SUB-CLASS	FILING DATE			
5,834,979	11/1998	Yatsuka							

**FOREIGN PATENT DOCUMENTS EXAMINER** CLASS SUB-CLASS TRANSLATION COUNTRY DOCUMENT NUMBER DATE INITIAL Yes ΑJ No Yes AK No Yes ΑL No Yes ΑM No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.) ΑN ΑO AP AQ AR

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DATE CONSIDERED

**EXAMINER**